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UTILITY PATENT APPLICATION **TRANSMITTAL**

Attorney Docket No.		GEMS 128624 (3500)		
First I	nventor	Laurent LAUNAY, et al.		
Title	Preprocessing Me	ethods for Robust Tracking		

(Only for new nonprovision	nal applications under 37 CFR 1.53(b))	Ехр	oress Mail Label No.	EV 3321	6507	70 US
APPLICA	TION ELEMENTS	1	IDDDCCC TO.	Assistant Cor Box Patent A		oner for Patents ion
See MPEP chapter 600 cond	cerning utility patent application content	s.		Washington,		
2. Submit an original and a Applicant claims s See 37 CFR 1.27 Specification (preferred arrangemen - Descriptive title - Cross Referenc - Statement Reg - Reference to se	[Total Pages 18] of the invention the to Related Applications arding Fed sponsored R & Dequence listing, a table, program listing appendix	·	CD-ROM or CD-Computer Programmer	ram (Appendizeno Acid Sequensery) adable Form (ence Listing of DM or CD-R (2	x) ence S CRF) n: ! copie	ubmission 0.27 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0
- Brief Summary	of the Invention	ſ	ACCOMPANYIN	IG APPLIC	ATIC	N PARTS
- Detailed Described Person - Claim(s) - Abstract of the 4. Drawing(s) (35 U) 5. Oath or Declaration a. Newly exect Copy from a (for continuation of the continuation) i. DELET Signed states	Disclosure]	9. Assignment Pa 37 CFR 3.73(b (when there is 11. English Transl 12. Information Dis Statement (ID: 13. Preliminary Ar 14. Return Receip (Should be spe 15. Certified Copy (if foreign prior) 16. Nonpublication	ppers (cover s o) Statement an assignee) ation Docume sclosure S)/PTO-1449 mendment ot Postcard (Mecifically itemi of Priority Do rity is claimed in Request uni	ent (if a	document(s)) Power of Attorney pplicable) Copies of IDS Citations 03) ht(s) U.S.C. 122
	and 1.33(b).		(b)(2)(B)(i). Ap		attach	form PTO/SB/35
6. Application Data	Sheet. See 37 CFR 1.76		17. Other:	 		
or in an Application Data She Continuation Prior application Information: For CONTINUATION OR DIVIS Box 5b, is considered a part of	ICATION, check appropriate box, and seet under 37 CFR 1.76: Divisional Continuation-in-part (Cli Examiner: IONAL APPS only: The entire disclosure of the disclosure of the accompanying content of the disclosure of the disclosure of the accompanying content of the disclosure of the disclosu	P) f the prio tinuation	of prior application No.: Group Art or application, from which a or divisional application a	Unit: an oath or dec	laration	is supplied under
	19. CORRESPON	IDENCE	ADDRESS			
Customer Number or Bar C	code Label (Insert Customer No. or Attact	ber code l	(abel here)	Correspon	dence a	ddress below
Name	Tracey R. Loughlin					
	DOUGHERTY, CLEMENTS & HO	FER				
Address	1901 Roxborough Road, Suite 30	0				
City	Charlotte	Stat	te NC	Zip (Code	28211
Country	USA 7	elephoi	ne 704-366-664	2 F	эх	704-366-9744
Name (Print/Type)	Tracey R. Loughlin	$\overline{}$	Registration No. (Atto	rney/Agent)		51,969
Signature	Macy ReLough	人		Date	08/1	8/2003

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FEE TRANSMITTAL		Complete if Known			
FEE IRAN	DIVITIAL	Application Number	Not Assigned Yet		
for FY	2003	Filing Date	August 18, 2003		
Effective 01/01/2003. Patent fees are s		First Named Inventor	Laurent LAUNAY, et al.		
		Examiner Name	Not Assigned Yet		
Applicant claims small entity status	. See 37 CFR 1.27	Art Unit	Not Assigned Yet		
TOTAL AMOUNT OF PAYMENT	(\$) 946.00	Attorney Docket No.	GEMS 128624 (3500)		
METHOD OF DAVMENT	1 - 11 11 - 1 1)	555.04	LOW ATION (

Check Credit card Money Order None Order None Deposit Account: Deposit Account: Deposit Account: Deposit Account: Number Deposit Account: Name The Commissioner is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account. FEE CALCULATION ACDITIONAL FEES Large Entity Small Entity Small Entity
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Name The Commissioner is authorized to: (check all that apply) Charge fee(s) indicated below Charge any additional fee(s) during the pendency of this application Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account. 1053 130 Non-English specification 1812 2,520 For filing a request for ex parte reexamination 1804 920* Requesting publication of SIR prior to Examiner action 1805 1,840* Requesting publication of SIR after Examiner action 1806 1,840* Examiner action 1807 1,840* Requesting publication of SIR after Examiner action 1808 1,840* Size of the filing fee to the above-identified deposit account.
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Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account. 1805 1,840* Requesting publication of SIR after Examiner action 1251 110 2251 55 Extension for reply within first month
to the above-identified deposit account. FEE CALCULATION 1251 110 2251 55 Extension for reply within first month
FEE CALCULATION
1. BASIC FILING FEE 1252 410 2252 205 Extension for reply within second month
Large Entity Small Entity 1253 930 2253 465 Extension for reply within third month
Fee Fee Fee Fee Fee Gode (\$) Fee Description Fee Paid 1254 1,450 2254 725 Extension for reply within fourth month
1001 750 2001 375 Utility filing fee 750.00 1255 1,970 2255 985 Extension for reply within fifth month
1002 330 2002 165 Design filing fee 1401 320 2401 160 Notice of Appeal
1003 520 2003 260 Plant filing fee 1402 320 2402 160 Filing a brief in support of an appeal
1004 750 2004 375 Reissue filing fee 1403 280 2403 140 Request for oral hearing
1005 160 2005 80 Provisional filing fee 1451 1,510 1451 1,510 Petition to institute a public use proceeding
SUBTOTAL (1) (\$) 750.00 1452 110 2452 55 Petition to revive - unavoidable
1453 1.300 2453 650 Petition to revive - unintentional
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE 1501 1,300 2501 650 Utility issue fee (or reissue)
Extra Claims below Fee Paid 1502 470 2502 235 Design issue fee
ladenoadest
Claims
Multiple Dependent 1807 50 1807 50 Processing fee under 37 CFR 1.17(q)
Large Entity Small Entity Fee Fee Fee Fee Fee Description 1806 180 Submission of Information Disclosure Stmt
Code (\$) Code (\$) Recording each patent assignment per property (times number of properties) Code (\$)
1202 18 2202 9 Claims in excess of 20 1809 750 2809 375 Filing a submission after final rejection
(**************************************
1203 280 2203 140 Multiple dependent claim, if not paid 1810 750 2810 375 For each additional invention to be examined (37 CFR 1.129(b))
over original patent 1801 750 2801 375 Request for Continued Examination (RCE)
1205 18 2205 9 ** Reissue claims in excess of 20 1802 900 1802 900 Request for expedited examination of a design application
SUBTOTAL (2) (\$) 156.00 Other fee (specify)
**or number previously paid, if greater; For Reissues, see above *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00
SUBMITTED BY (Complete (if applicable)

Tracey R. Loughlin Name (Print/Type) Telephone 704-366-6642 (Attorney/Agent) Date 08/18/2003 Signature

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Type of Document(s):

- Utility Patent Application Transmittal (PTO/SB/05) (1 page)

- Fee Transmittal (PTO/SB/17) (1 page) (2 copies)

- Specification and Claims (18 pages)

- Drawings (4 pages)

- Information Disclosure Statement (3 pages)

- Information Disclosure Statement Form (PTO/SB/08A) (2 pages)

- Declaration and Power of Attorney (5 pages)

- Recordation Form Cover Sheet (PTO-1595) (1 page) (2 copies)

Assignment (5 pages)Post Card Receipt

Serial No.:

Not Assigned

Inventors:

Laurent LAUNAY, et al.

Title:

PREPROCESSING METHODS FOR ROBUST TRACKING OF

CORONARY ARTERIES IN CARDIAC COMPUTED

TOMOGRAPHY IMAGING AND SYSTEMS THEREFOR

File Reference:

GEMS 128624 (3500)

I hereby certify that the documents identified above are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Mail Stop: Patent Application, Commissioner for Patents, Alexandria, VA 22313-1450.

Cerri K. Lester